

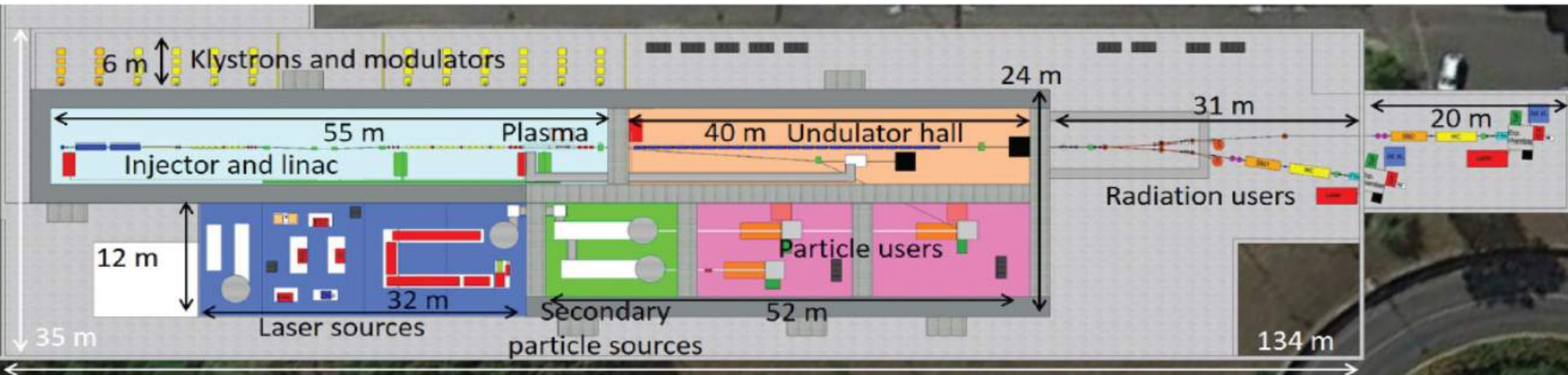
EuPRAXIA @ SPARC_LAB

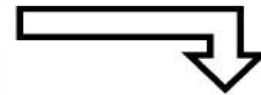
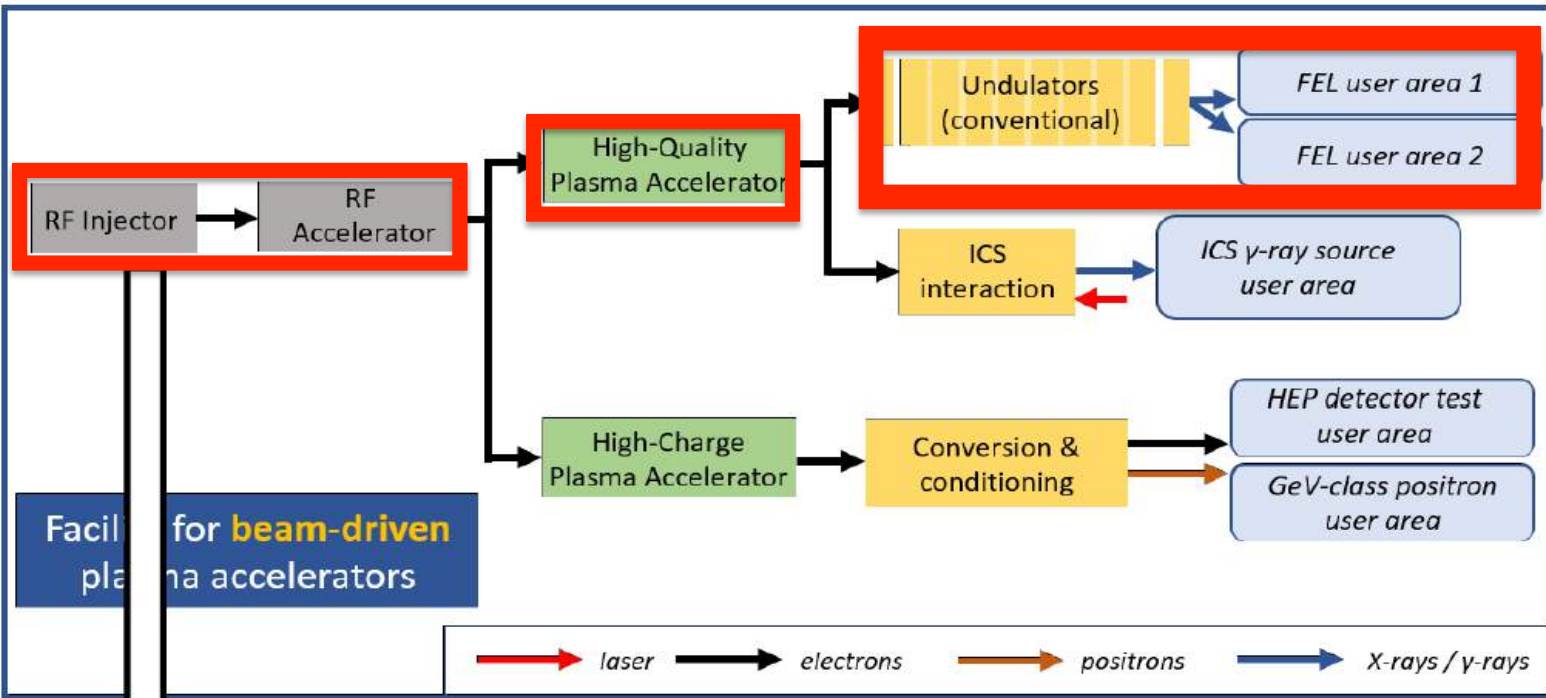
Massimo.Ferrario@lnf.infn.it



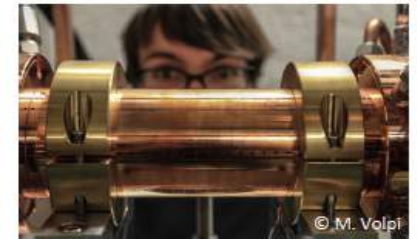
RDA – 16 Gennaio 2020







- Free-electron laser
- Gamma-ray source (inverse Compton scattering)
- GeV-class positron source
- High-energy physics detector testing stand



A STATE-OF-THE-ART X-BAND LINAC


Operating frequency	Field strength	Length	Final beam energy
~12 Hz	≤ 80 MV/m	10 m	~500 MeV

EuPRAXIA@SPARC_LAB

To DO

- Organization Breakdown Structure
- Kick-Off Meeting at LNF -> Febbraio?
- ESFRI Road Map Application -> 5 Maggio
- Preliminary Machine Layout -> << 10 Maggio
- Progettazione definitiva Edificio -> 10 Maggio
- XLS_Compact_Light CDR -> Dicembre
- TDR -> 2023

Organization Breakdown Structure

 Istituto Nazionale di Fisica Nucleare

DocID: Eupraxia-PM-QA-0010 Rev: 0.1 Validità: Bozza

Data 29/10/2019

Project Management - WBS, OBS

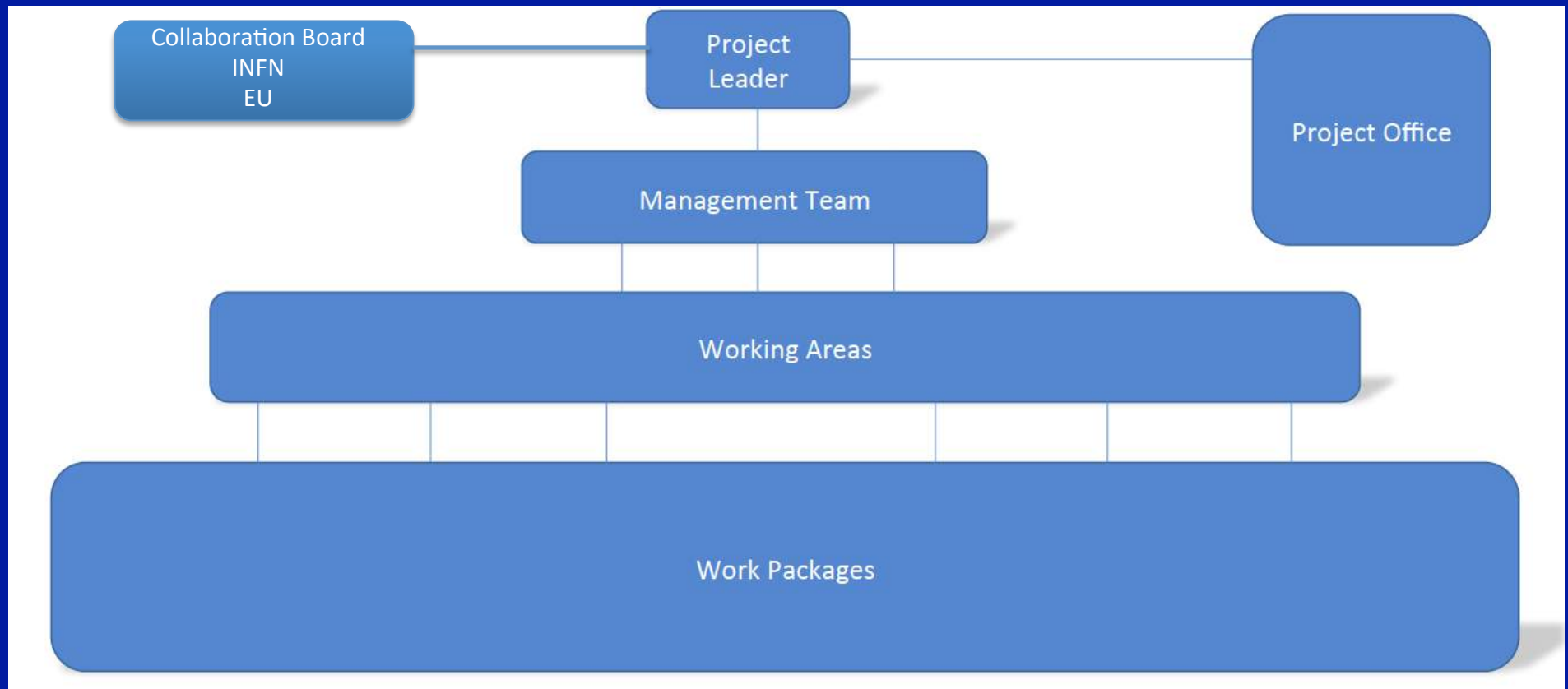
**Organization Breakdown Structure,
Work Breakdown Structure e descrizione**

Descrizione dell'organigramma di progetto, della WBS, dei singoli WPs e relative attribuzioni

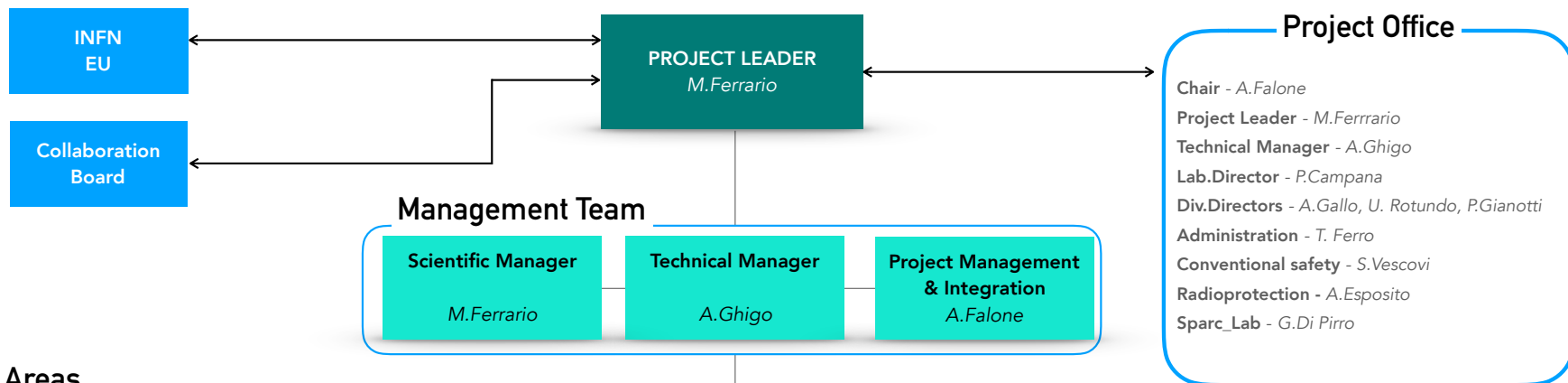
Autore	Verificato da	Approvato da
A.Falone	P.Campana A.Ghigo M.Ferrario	P.Campana A.Ghigo

Lista di distribuzione:
- Documento Pubblico

Organization Breakdown Structure



Organization Breakdown Structure (valid until the end of Commissioning)



Working Areas



Work Packages

1. Accelerator Physics A.Giribono A.Mostacci (Uniroma1)	5. Secondary part. sources T.B.D.	9. Computing P.Santangelo	13. Beam Instrumentation & Diagnostics A.Stella / A.Cianchi	17. Undulators L.Giannessi	21. Civil engineering S.Incremona
2. Plasma Physics A.R.Rossi	6. Plasma module A.Biagioni	10. Vacuum D.Alesini	14. LLRF & Synchro M.Bellaveglia	18. Mech.Engineering L.Pellegrino	22. Radioprotection A.Esposito
3. FEL Physics V.Petrillo	7. Sparc_Lab TF R.Pompili	11. Lasers & Cathodes M.Anania	15. Control system & Interlocks A.Stecchi	19. Electrical Intallations R.Ricci	23. Conventional Safety S.Vescovi
4. Photon & User Beamlines F.Villa	8. RF Gun & Accelerating structures D.Alesini	12. High Power RF & distribution T.B.D.	16. Magnets & PS L.Sabbatini	20. Cooling & Ventilation S.Cantarella	24. Outreach T.B.D.

ESFRI Road Map

Tempistica processo nazionale

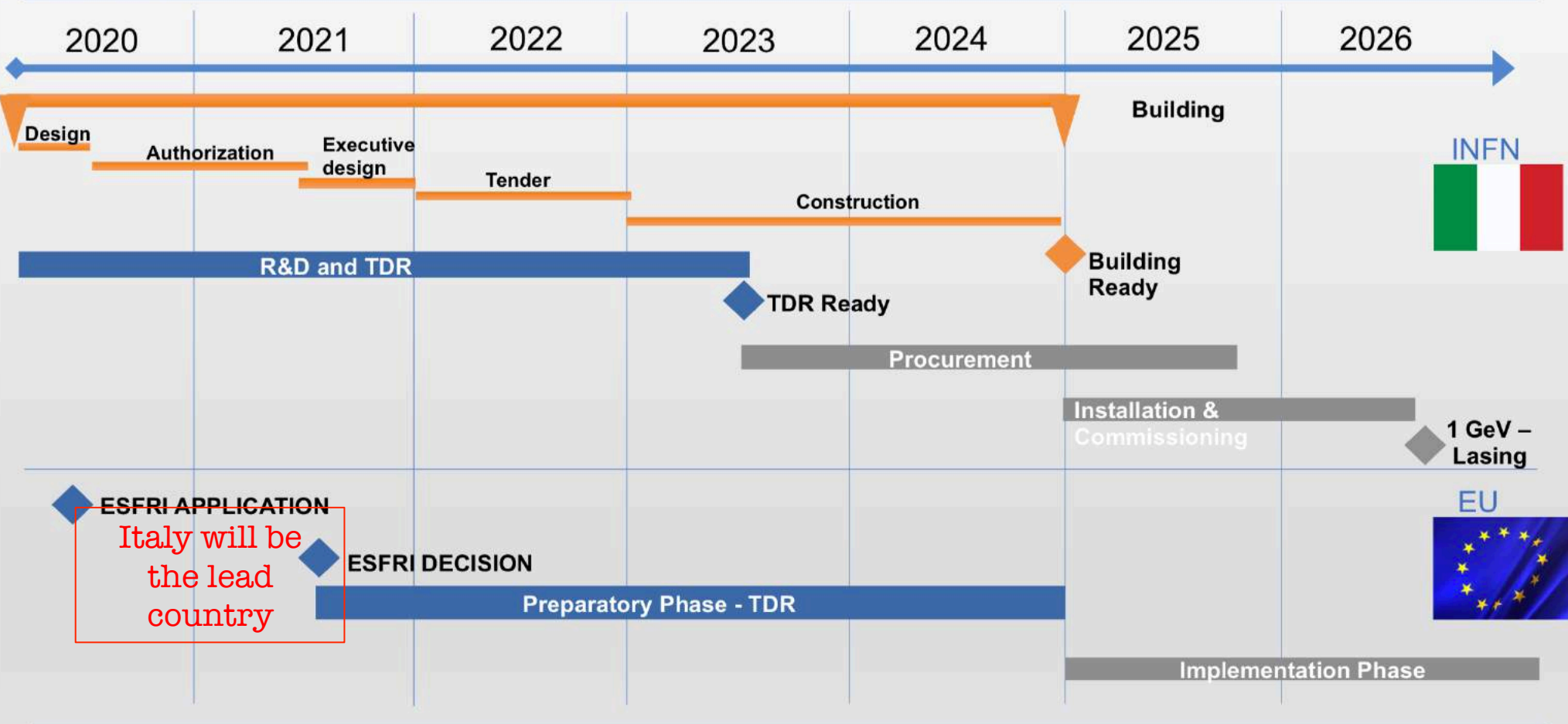


- **15 dicembre 2019** - scadenza sottomissione [Expression of interest](#) (da sottomettere via sito [esfri.it](#))
- **15 Febbraio 2020** - lettera di supporto da parte Italiana (sia per le proposte a leadership italiana che per partecipazione ad altre proposte)
- **30 marzo 2020** - proposta consolidata
- **30 aprile 2020** - proposta finalizzata
- **5 maggio 2020** - scadenza sottomissione ad ESFRI

Tempistica processo Europeo

SUBMISSION OF PROPOSALS	5 May 2020
CRITICAL QUESTIONS & INVITATION TO HEARINGS	October 2020
HEARINGS	November-December 2020
ESFRI FORUM DECISION	June-September 2021
ESFRI ROADMAP LAUNCH	October-November 2021

Strategic Planning - Roadmap



Italy will be the lead country

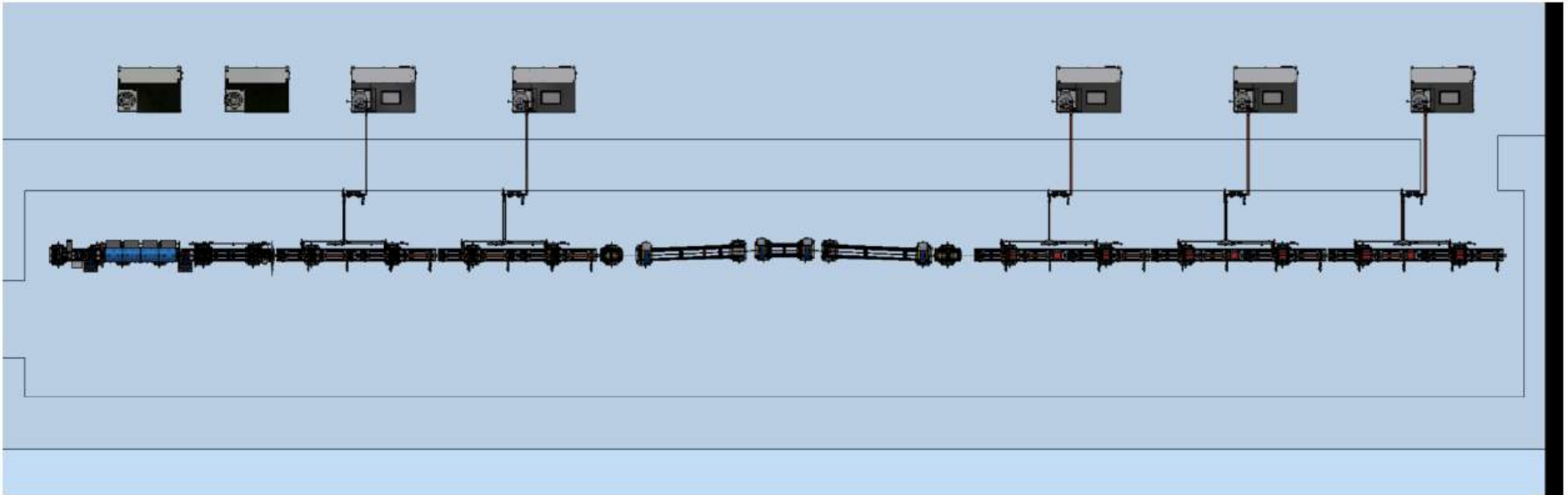
- Progettazione definitiva Edificio -> 10 Maggio



• Preliminary Machine Layout

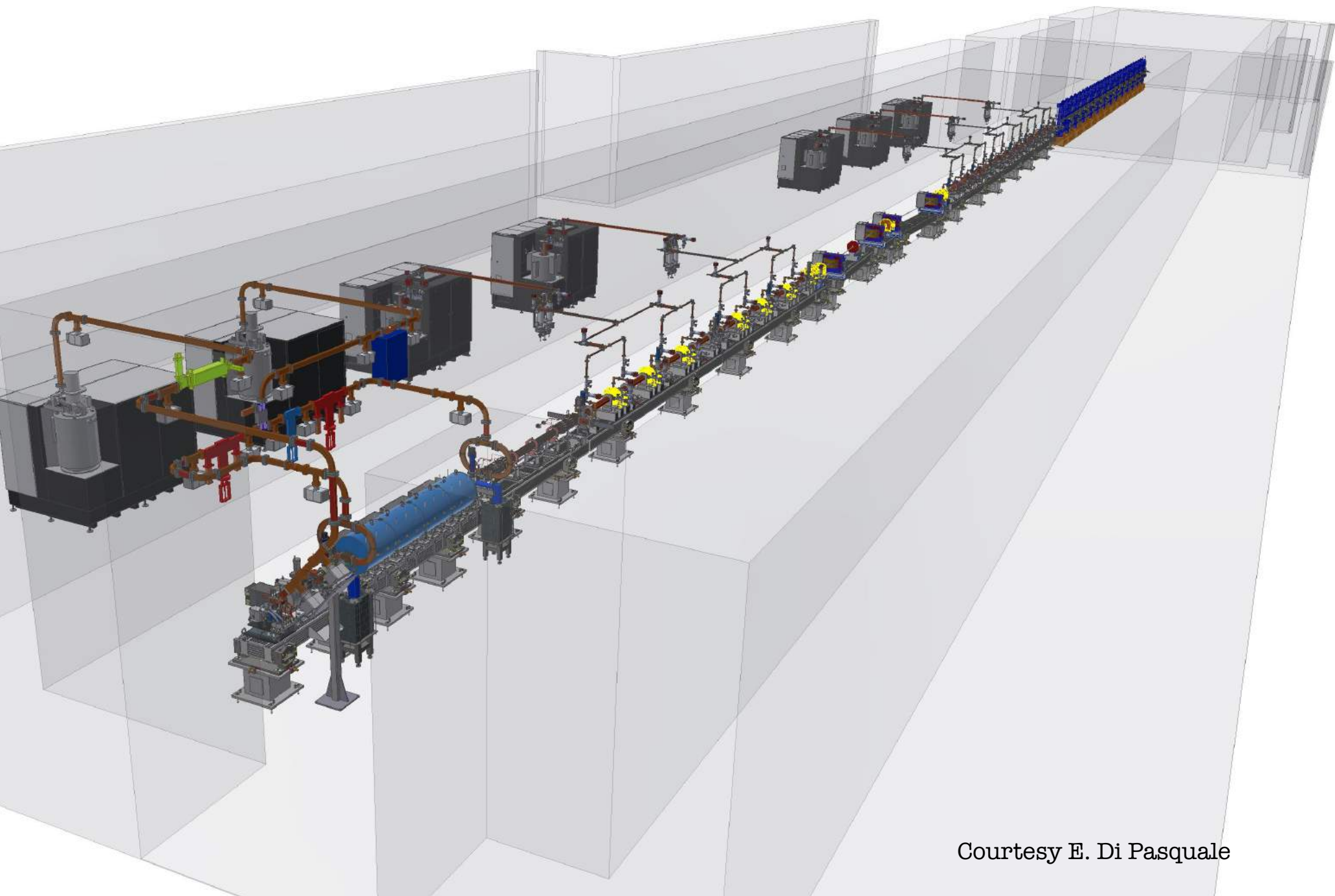
<< 10 Maggio

TO BE UPDATED.

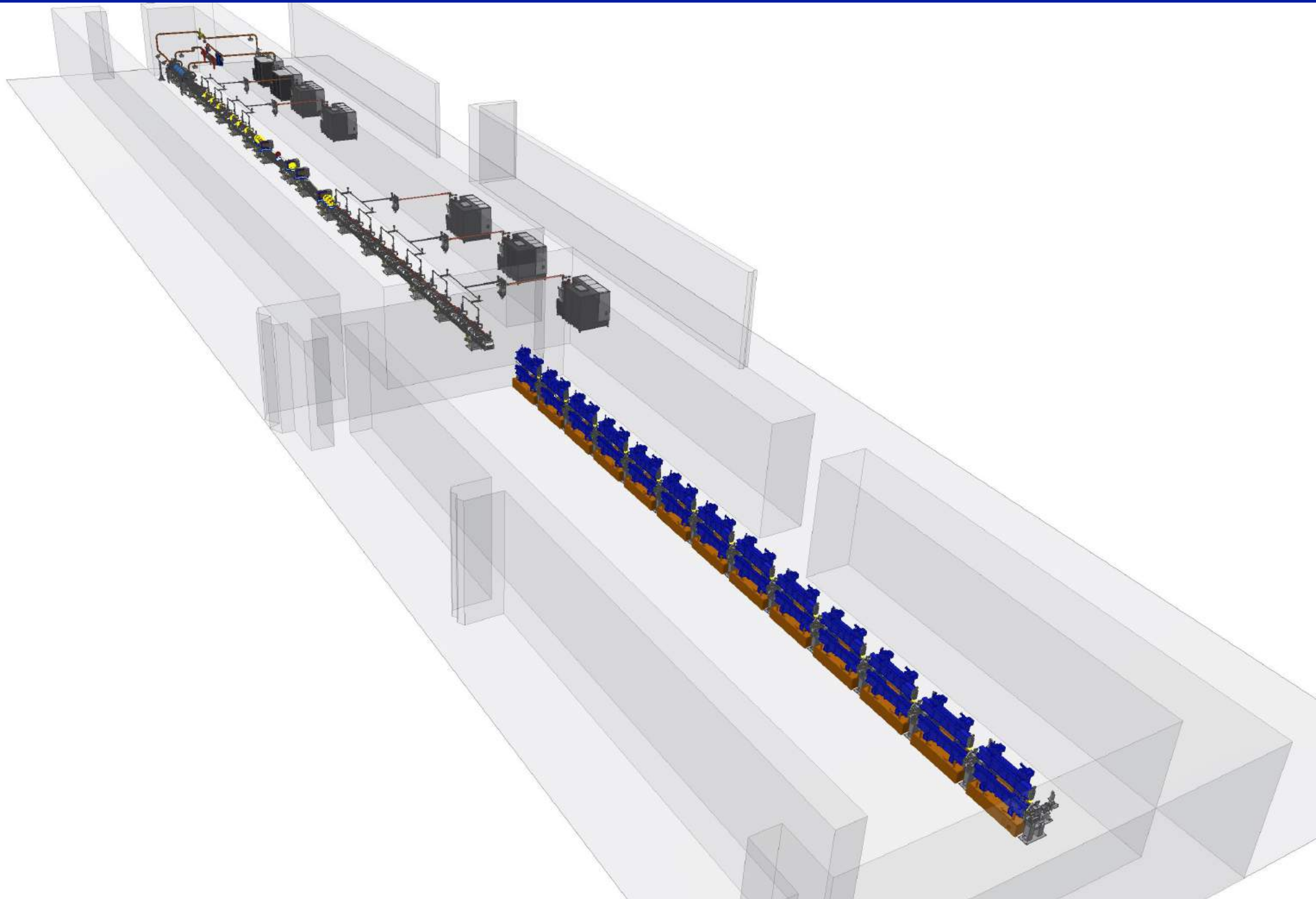


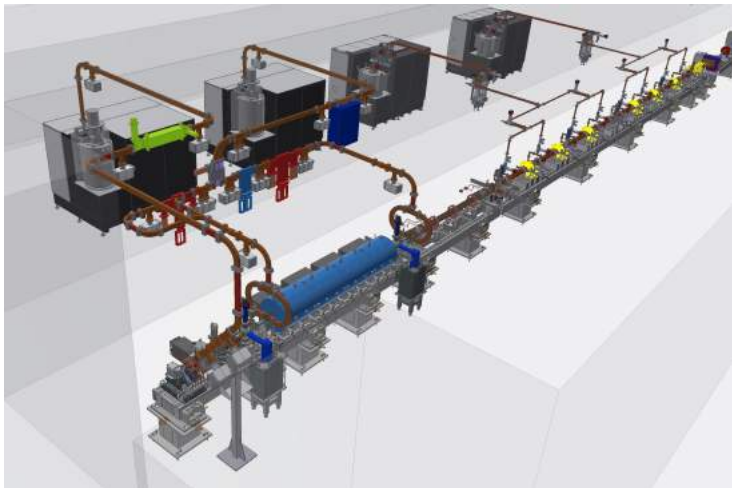
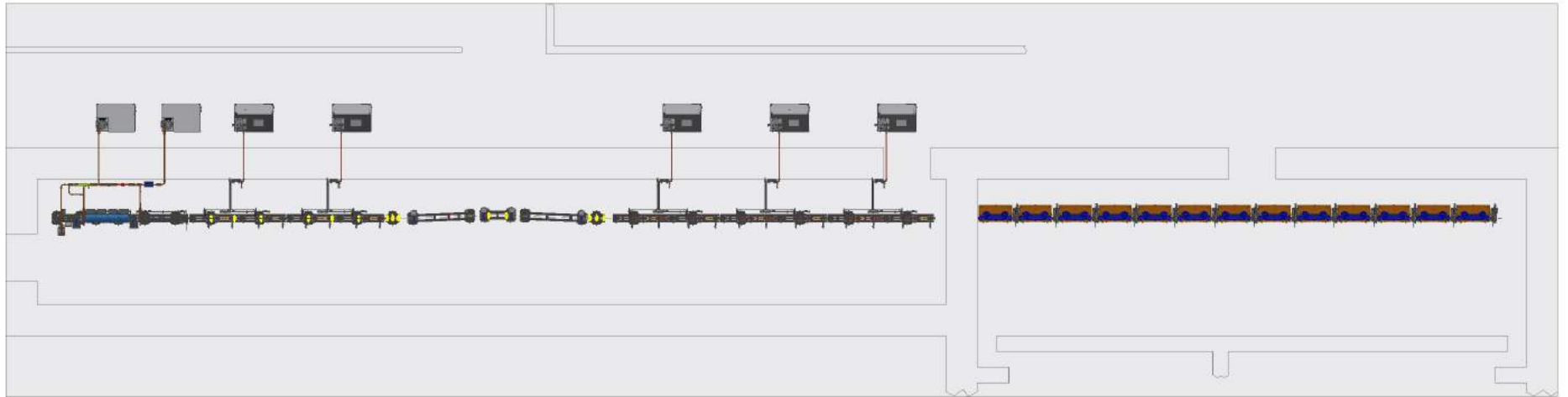
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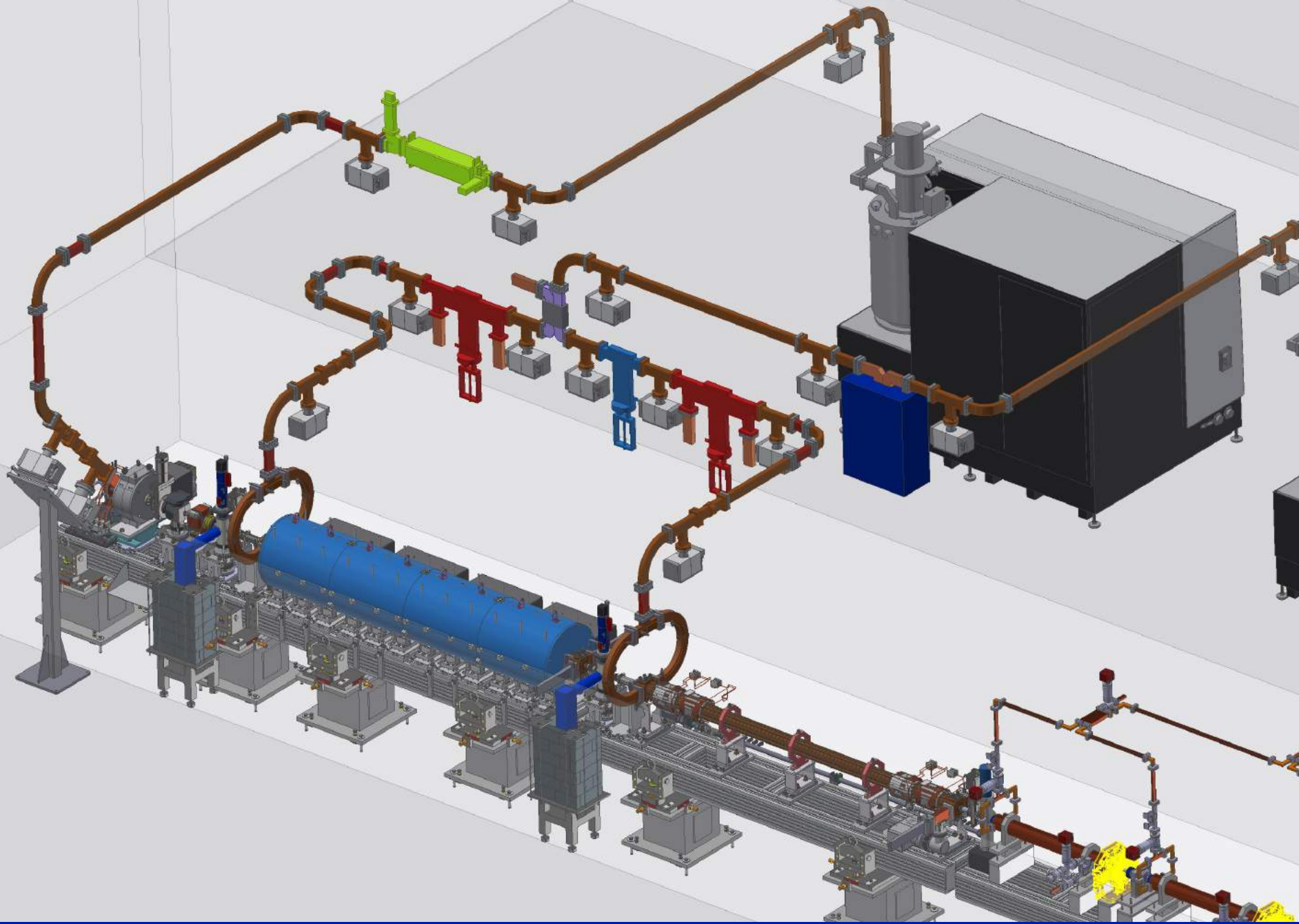
- Numero e posizionamento dei racks.
- Valutazione di ingombri e sicurezze
- Ottimizzazione fill-factor
- Posizionamento beam dump



Courtesy E. Di Pasquale









Thanks for your attention

Project Office – (LNF Steering Board)

LNF Director - LNF Administration – Resp. Divisioni (R,A,T)

Edilizia – Impianti – Sicurezze – Radio Prot. - Project Leader & Technical Team

- A Project Office has been established aiming to bring together in a "control room" some of the key figures of the project and to be the indispensable **managerial-organizational complement to the activities of the EuPRAXIA @ SPARC_LAB Collaboration**, which remains responsible for the technical-scientific choices of the project, as well as its construction, installation and achievement of scientific goals.
- The mandate of the PO will include:
 - **deliver the Organisational Breakdown Structure (OBS)** of the EuPRAXIA@SPARC_LAB project
 - **carry out all the steps necessary for the construction of the building** intended to house EuPRAXIA@SPARC_LAB, **monitor the project and its execution**, the installation of technical services and the performance of all tender and administrative procedures, including the timing and financial resources;
 - **carry out all the necessary steps for the preparation of the Technical Design Report** for each subsystem of the EuPRAXIA @ SPARC_LAB machine, monitor the project, also in relation to the necessary R&D developments. Subsequently, coordinate their construction, installation and implementation, with particular regard to the timing and aspects relating to human and financial resources.

Detailed Building Construction Plan

